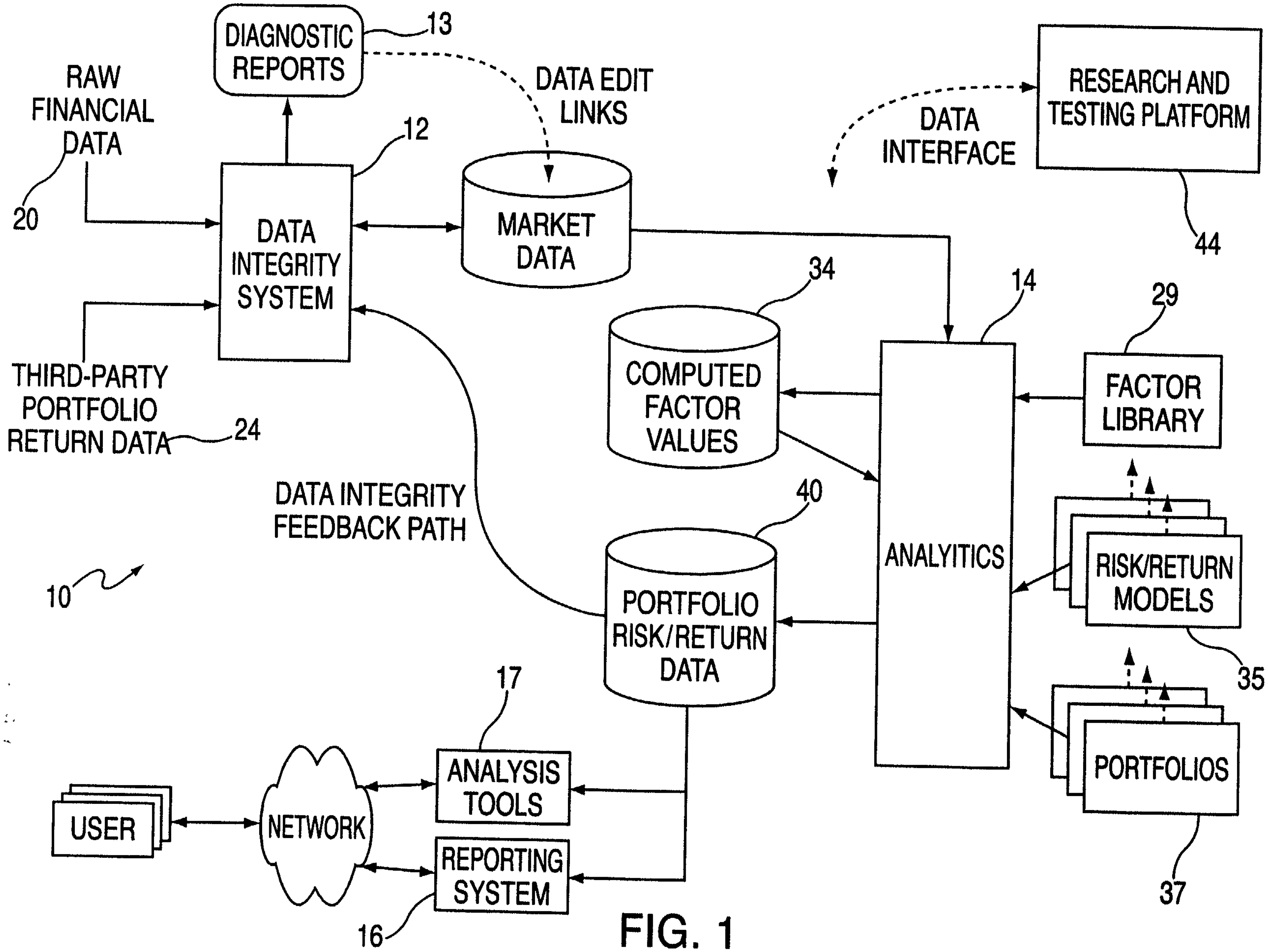
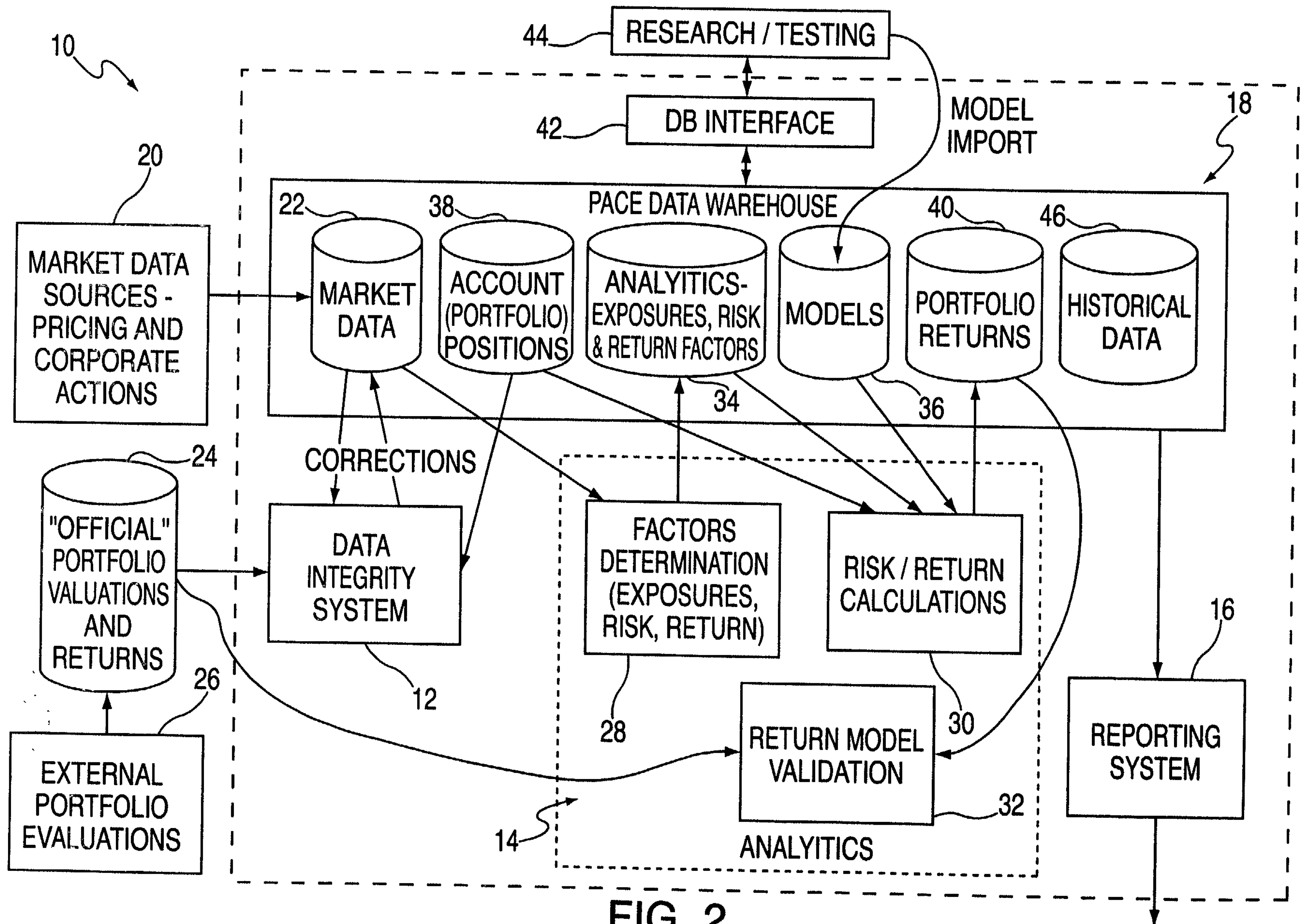

DIAGNOSTIC REPORTS
13
RAW FINANCIAL DATA
20
DATA EDIT LINKS
12
DATA INTEGRITY SYSTEM
MARKET DATA
DATA INTERFACE
RESEARCH AND TESTING PLATFORM
44
THIRD-PARTY PORTFOLIO RETURN DATA
24
34
COMPUTED FACTOR VALUES
14
29
FACTOR LIBRARY
DATA INTEGRITY FEEDBACK PATH
40
ANALYITICS
RISK/RETURN MODELS
35
10
PORTFOLIO RISK/RETURN DATA
17
ANALYSIS TOOLS
USER
NETWORK
REPORTING SYSTEM
16
PORTFOLIOS
37

FIG. 1



10
RESEARCH / TESTING
44
DB INTERFACE
42
MODEL IMPORT
18
20
MARKET DATA SOURCES - PRICING AND CORPORATE ACTIONS
PACE DATA WAREHOUSE
22
MARKET DATA
38
ACCOUNT (PORTFOLIO) POSITIONS
ANALYITICS- EXPOSURES, RISK & RETURN FACTORS
34
MODELS
36
40
PORTFOLIO RETURNS
46
HISTORICAL DATA
24
"OFFICIAL" PORTFOLIO VALUATIONS AND RETURNS
CORRECTIONS
DATA INTEGRITY SYSTEM
12
FACTORS DETERMINATION (EXPOSURES, RISK, RETURN)
28
RISK / RETURN CALCULATIONS
30
RETURN MODEL VALIDATION
32
ANALYITICS
14
16
REPORTING SYSTEM
26
EXTERNAL PORTFOLIO EVALUATIONS

FIG. 2

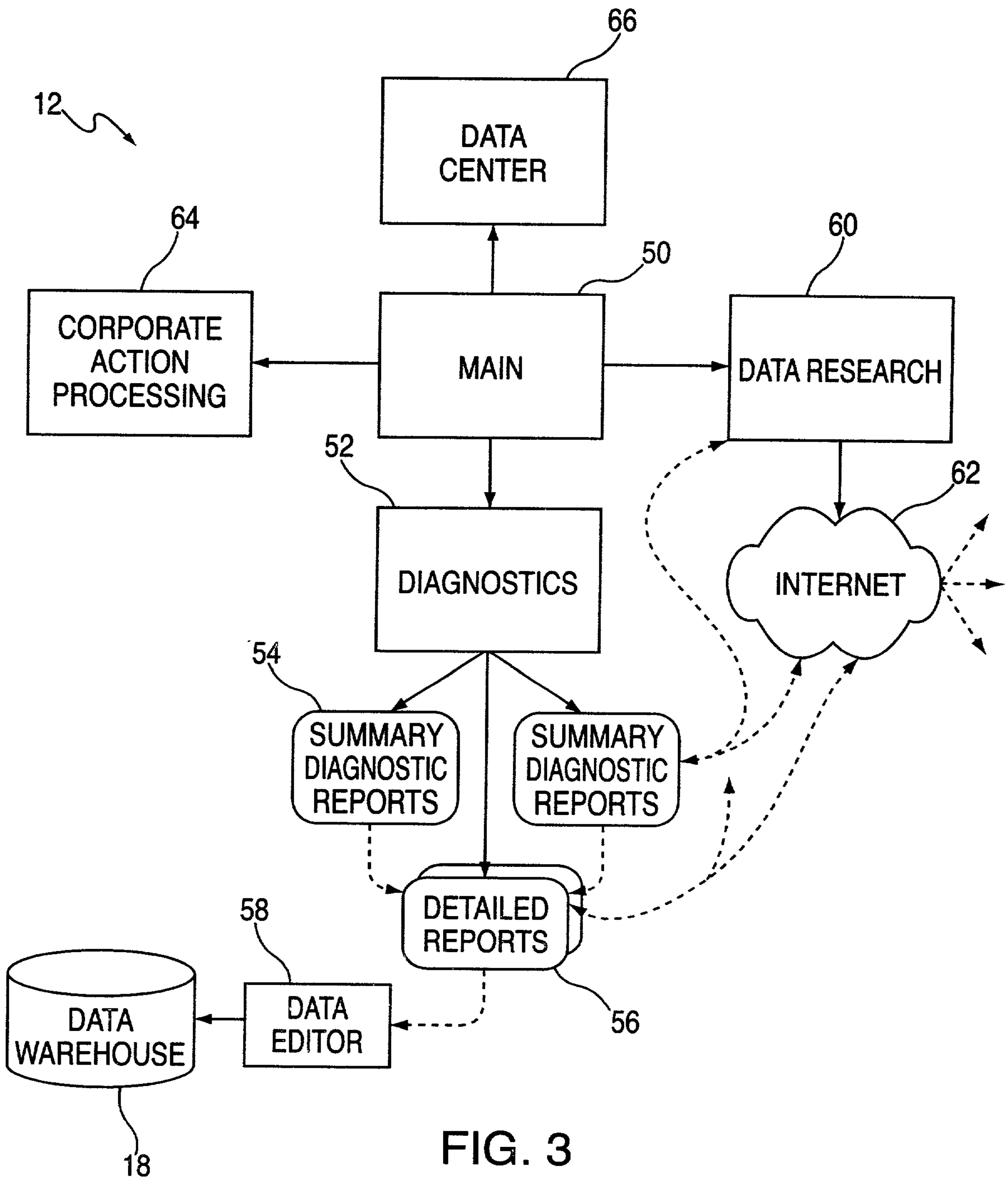

12
66
DATA CENTER
64
CORPORATE ACTION PROCESSING
50
MAIN
60
DATA RESEARCH
52
DIAGNOSTICS
62
INTERNET
54
SUMMARY DIAGNOSTIC REPORTS
SUMMARY DIAGNOSTIC REPORTS
58
DETAILED REPORTS
56
DATA WAREHOUSE
DATA EDITOR
18

FIG. 3

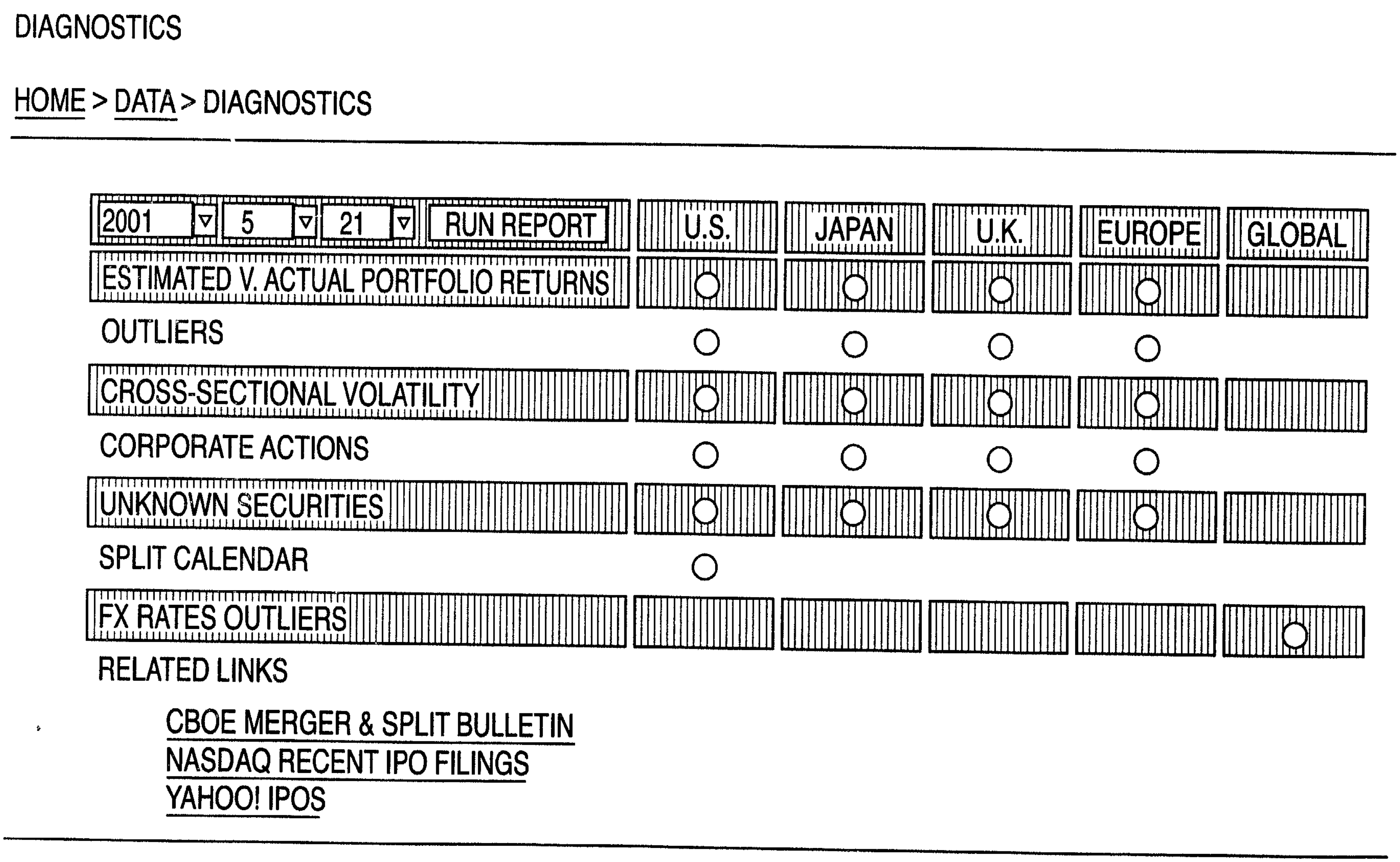

DIAGNOSTICS
HOME > DATA > DIAGNOSTICS
2001
5
21
RUN REPORT
U.S.
JAPAN
U.K.
EUROPE
GLOBAL
ESTIMATED V. ACTUAL PORTFOLIO RETURNS
OUTLIERS
CROSS-SECTIONAL VOLATILITY
CORPORATE ACTIONS
UNKNOWN SECURITIES
SPLIT CALENDAR
FX RATES OUTLIERS
RELATED LINKS
CBOE MERGER & SPLIT BULLETIN
NASDAQ RECENT IPO FILINGS
YAHOO! IPOS

FIG. 4

ESTIMATED (AKA W ' R) V. ACTUAL PORTFOLIO RETURNS : JAPAN

HOME > DATA > DIAGNOSTICS > ESTIMATED V. ACTUAL RETURNS

DEFINITIONS:

- ESTIMATE = ESTIMATED ACCOUNT TOTAL RETURN BASED UPON PACE MARKET DATA.
- ACTUAL = ACTUAL ACCOUNT TOTAL RETURN AS REPORTED BY IPVO.
- BPS DIFF = |ESTIMATE - ACTUAL|
- ASSETS = CHANGE IN NUMBER OF ASSETS IN AN ACCOUNT, (ASSETS[t] - ASSETS[t-1])

CLICK ON THE PORTFOLIO NAME TO VIEW INFORMATION (E.G., ISSUERS NAME, PACE ID, CUSIP AND/OR SEDOL, PRICE, SHARES, TOTAL RETURN, DIVIDENDS) FOR EACH CONSTITUENT.

PORTFOLIO NAME	PORTFOLIO #	ESTIMATE	ACTUAL	BPS DIFF	ASSETS
KAMPO JAPAN QUANTS EQUITY	350996	0.708	N/A	N/A	-1
JR HOKKAIDO	350955	1.068	N/A	N/A	0
JAPAN TELECOMMUNICATIONS WELFARE ASSN. (TELWEL)	350949	1.060	N/A	N/A	0
NENPUKU - LPS	350948	1.104	N/A	N/A	0
JAPAN ACTIVE EQUITY PORTFOLIO (POOLED)	350340	1.106	N/A	N/A	0
GS JAPANESE EQUITY FUND (ONSHORE)-USHIWAKAMARU	350330	1.033	N/A	N/A	0
NIPPON STEEL	350042	1.064	N/A	N/A	0
TOKYO ELECTRIC POWER QPF	350026	1.073	N/A	N/A	0
CSK EMPLOYEES PENSION FUND	350025	0.791	N/A	N/A	0
CANON PENSION FUND	350003	1.049	N/A	N/A	0
MELCO PENSION TRUST	350001	1.081	N/A	N/A	0
LINCOLN JAPAN LIFE	170210	1.122	N/A	N/A	0
MINEWORKERS JAPAN EQUITY	100832	0.972	N/A	N/A	-1
STAFF JAPAN EQUITY	100807	0.975	N/A	N/A	0
PUBLIC INSTITUTION FOR SOCIAL SECURITY	100312	1.070	N/A	N/A	0
KDDI	100238	1.076	N/A	N/A	0
GS JAPANESE EQUITY FUND	100222	1.090	1.673	58	0
GS JAPANESE EQUIRT FUND (ONSHORE)-USHI 2	350331	0.985	1.031	4	0
TOPIX	664	0.879	0.861	1	0
ISSUNBOSHI GS JAPAN MICROCAP	350339	0.829	0.845	1	0
JAPAN CORE EQUITY FUND	300977	0.679	0.690	1	0
GS JAPAN PORTFOLIO (UCITS) FUND	100084	1.063	1.054	-	0
MSCI JAPAN	661	0.942	0.949	-	0
GS JAPAN SMALL CAP FUND	100087	0.713	0.718	-	0
RUSSEL NR1 SMALL CAP	663	0.522	0.517	-	0

70

FIG. 5

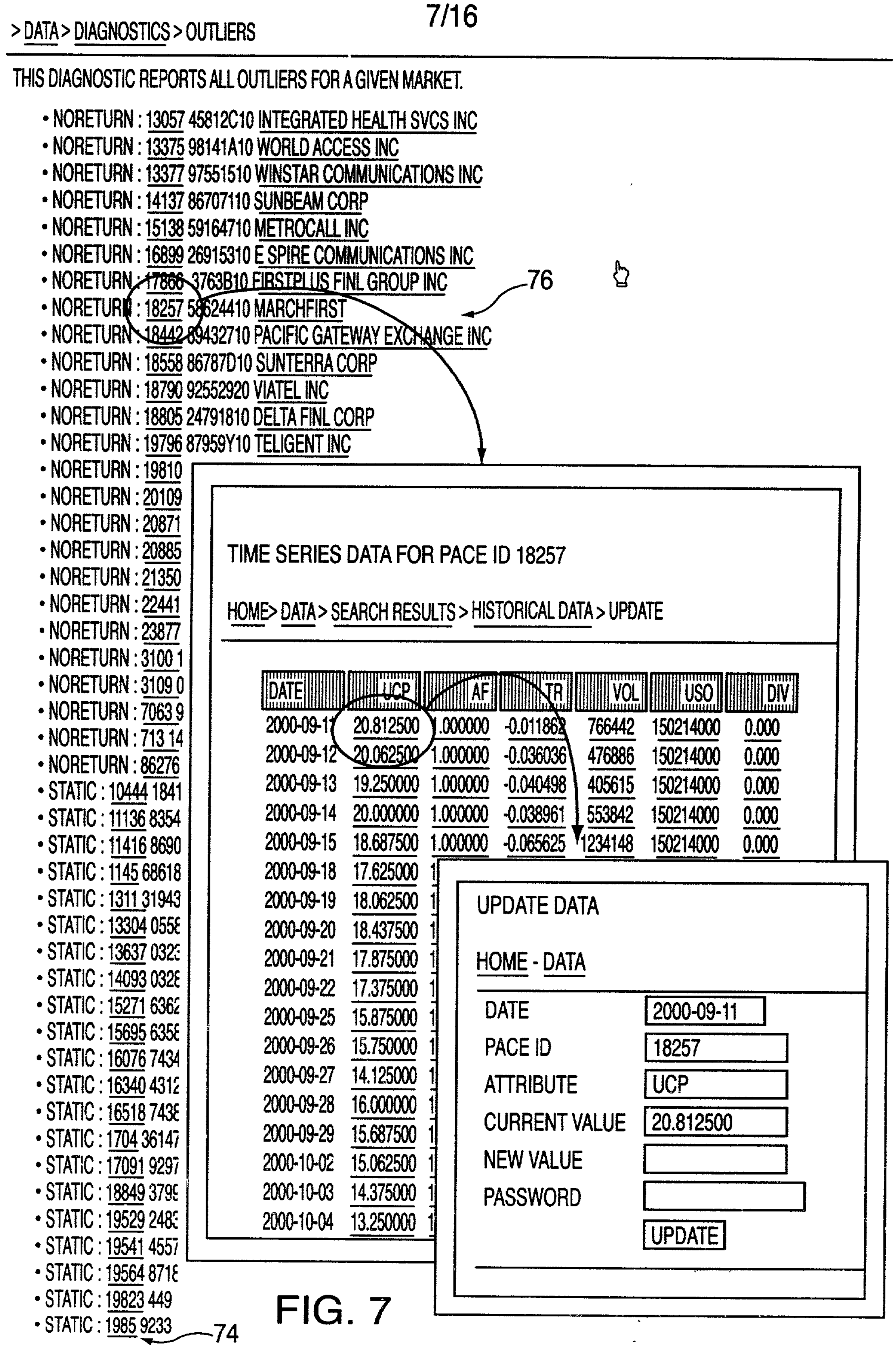
CONSTITUENT DATA FOR GS JAPANESE EQUITY FUND AS OF 20010521

CLICK ON THE PACE IDS FOR HISTORICAL SECURITY DATA.

72

ISSUER	PACE ID	SYNONYM	PRICE	SHARES	RETURN	DIVIDEND	SPLIT
ASAHI KASEI CORP	25655	'6054603	602.0000	149000	0.0067	-	-
ASAHI GLASS CO	25931	'6055208	1082.0000	82000	0.0065	-	-
BANDAI CO	26673	'6075057	3890.0000	18200	0.0104	-	-
BANYU PHARM	25836	'6077309	2305.0000	37000	-0.0171	-	-
TOPPAN FORMS	28179	'6105028	2045.0000	45900	0.0074	-	-
SUMITOMO REAL EST	28186	'6119449	3530.0000	4900	0.0173	-	-
NIPPON MINING & ME	28199	'6123202	730.0000	74000	0.0238	-	-
NTT DOCOMO	28219	'6129277	2500000.0000	172	0.0040	-	-
FUNAI ELECTRIC CO	28245	'6141550	9400.0000	4500	-0.0021	-	-
USS	28286	'6171494	3990.0000	300	-0.0124	-	-
CANON INC	26629	'6172323	5190.0000	38000	0.0058	-	-
CHIBA BANK	26961	'6190563	530.0000	78000	0.0134	-	-
YOSHINOYA D&C CO	25345	'6211851	178000.0000	410	-0.0166	-	-
DDI CORP	27628	'6248990	589000.0000	109	0.0867	-	-
DAIWA SECS GROUP	27075	'6251448	1394.0000	77000	0.0138	-	-
DOWA MINING CO	26063	'6278306	565.0000	125000	0.0561	-	-
MIZUHO HLDGS	44966	'6286280	699000.0000	144	-0.0029	-	-
EAST JAPAN RAILWAY	27641	'6298542	667000.0000	155	-0.0045	-	-
UFJ HLDGS	85771	'6335223	823000.0000	90	-0.0167	-	-
FUJI PHOTO FILM CO	25882	'6356525	5100.0000	27000	0.0262	-	-
FUJITEC CO	26296	'6356826	500.0000	71000	0.0142	-	-
HONDA MOTOR CO	26583	'6435145	5280.0000	18000	-0.0038	-	-
AIR WATER	25752	'6441465	579.0000	8000	0.0140	-	-
KANEBO	25618	'6483241	369.0000	97000	0.0453	-	-
KANEKA CORP	25774	'6483360	1115.0000	100000	0.0353	-	-
KAO CORP	25822	'6483809	3140.0000	43000	0.0096	-	-
KATOKICHI CO	25596	'6484244	3140.0000	22300	-0.0485	-	-
KEYENCE CORP	26460	'6490995	28360.0000	3000	0.0071	-	-
KIRIN BREWERY CO	25562	'6493745	1129.0000	52000	0.0098	-	-
KOMERI CO	26885	'6496250	2860.0000	12900	0.0142	-	-

FIG. 6



> DATA > DIAGNOSTICS > OUTLIERS
THIS DIAGNOSTIC REPORTS ALL OUTLIERS FOR A GIVEN MARKET.
• NORETURN : 13057 45812C10 INTEGRATED HEALTH SVCS INC
• NORETURN : 13375 98141A10 WORLD ACCESS INC
• NORETURN : 13377 97551510 WINSTAR COMMUNICATIONS INC
• NORETURN : 14137 86707110 SUNBEAM CORP
• NORETURN : 15138 59164710 METROCALL INC
• NORETURN : 16899 26915310 E SPIRE COMMUNICATIONS INC
• NORETURN : 17866 3763B10 FIRSTPLUS FINL GROUP INC
• NORETURN : 18257 58624410 MARCHFIRST
• NORETURN : 18442 69432710 PACIFIC GATEWAY EXCHANGE INC
• NORETURN : 18558 86787D10 SUNTERRA CORP
• NORETURN : 18790 92552920 VIATEL INC
• NORETURN : 18805 24791810 DELTA FINL CORP
• NORETURN : 19796 87959Y10 TELIGENT INC
• NORETURN : 19810
• NORETURN : 20109
• NORETURN : 20871
• NORETURN : 20885
• NORETURN : 21350
• NORETURN : 22441
• NORETURN : 23877
• NORETURN : 3100 1
• NORETURN : 3109 0
• NORETURN : 7063 9
• NORETURN : 713 14
• NORETURN : 86276
• STATIC : 10444 1841
• STATIC : 11136 8354
• STATIC : 11416 8690
• STATIC : 1145 68618
• STATIC : 1311 31943
• STATIC : 13304 0558
• STATIC : 13637 0323
• STATIC : 14093 0328
• STATIC : 15271 6362
• STATIC : 15695 6358
• STATIC : 16076 7434
• STATIC : 16340 4312
• STATIC : 16518 7438
• STATIC : 1704 36147
• STATIC : 17091 9297
• STATIC : 18849 3799
• STATIC : 19529 2483
• STATIC : 19541 4557
• STATIC : 19564 8718
• STATIC : 19823 449
• STATIC : 1985 9233
76
74
TIME SERIES DATA FOR PACE ID 18257
HOME > DATA > SEARCH RESULTS > HISTORICAL DATA > UPDATE
DATE UCP AF TR VOL USO DIV
2000-09-11 20.812500 1.000000 -0.011862 766442 150214000 0.000
2000-09-12 20.062500 1.000000 -0.036036 476886 150214000 0.000
2000-09-13 19.250000 1.000000 -0.040498 405615 150214000 0.000
2000-09-14 20.000000 1.000000 -0.038961 553842 150214000 0.000
2000-09-15 18.687500 1.000000 -0.065625 1234148 150214000 0.000
2000-09-18 17.625000
2000-09-19 18.062500
2000-09-20 18.437500
2000-09-21 17.875000
2000-09-22 17.375000
2000-09-25 15.875000
2000-09-26 15.750000
2000-09-27 14.125000
2000-09-28 16.000000
2000-09-29 15.687500
2000-10-02 15.062500
2000-10-03 14.375000
2000-10-04 13.250000
UPDATE DATA
HOME - DATA
DATE 2000-09-11
PACE ID 18257
ATTRIBUTE UCP
CURRENT VALUE 20.812500
NEW VALUE
PASSWORD
UPDATE

FIG. 7

CROSS-SECTIONAL VOLATILITY : U.S.

HOME > DATA > DIAGNOSTICS > CROSS-SECTIONAL VOLATILITY

CLICK ON THE DATES TO REPORT TOTAL RETURN OUTLIERS.

DATE	CROSS-SECTIONAL VOL	NUMBER OF SECURITIES
20010521	5.947	7955
20010518	4.798	7951
20010517	8.507	7914
20010516	7.261	7919
20010515	5.385	7918
20010514	6.642	7925
20010511	6.343	8038
20010510	5.994	8040
20010509	5.278	8042
20010508	6.100	8042
20010507	5.617	8039
20010504	5.290	8043
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20(		
20010409	6.864	8125
20010406	6.643	8123
20010405	10.277	8113
20010404	7.690	8123
20010403	9.506	8129
20010402	7.052	8134
20010330	7.753	8143
20010329	7.982	8143

TOTAL RETURN OUTLIERS: U.S. : 20010517

HOME > DATA > DIAGNOSTICS > CROSS-SECTIONAL VOLATILITY > TOTAL RETURN OUTLIERS

ISSUER	SYNONYM	TOTAL RETURN	UNADJUSTED PRICE
INTERSHOP COMM AG	4609W10	-0.681818	4.812
COLLEGELINK COM INC	19453510	-0.500000	0.031
ADAPTIVE BROADBAND CORP	00650M10	-0.479592	3.188
NETWORK ENGINES INC	64121A10	-0.455224	2.281
ANC RENT CORP	00181310	-0.428571	2.000
COMMTOUCH SOFTWARE LTD	M2559610	-0.419355	2.250
OSAGE SYSTEMS GROUP INC	68773510	-0.416667	0.219
TUMBLEWEED COMMUNICATIONS CORP	89969010	-0.415525	10.000
ENHERENT CORP	29331310	-0.400000	0.562

FIG. 8

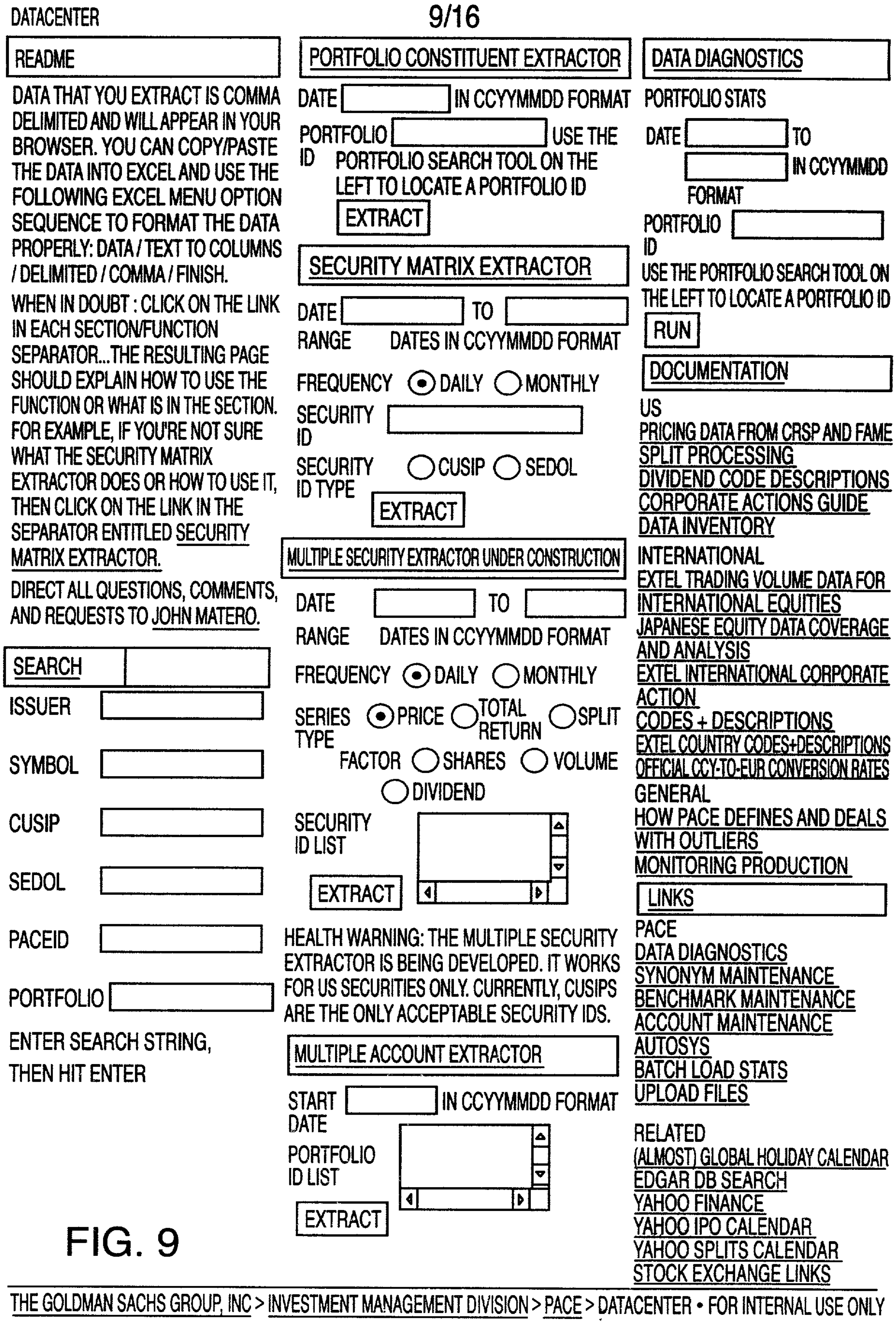

DATACENTER
README
DATA THAT YOU EXTRACT IS COMMA DELIMITED AND WILL APPEAR IN YOUR BROWSER. YOU CAN COPY/PASTE THE DATA INTO EXCEL AND USE THE FOLLOWING EXCEL MENU OPTION SEQUENCE TO FORMAT THE DATA PROPERLY: DATA / TEXT TO COLUMNS / DELIMITED / COMMA / FINISH.
WHEN IN DOUBT : CLICK ON THE LINK IN EACH SECTION/FUNCTION SEPARATOR...THE RESULTING PAGE SHOULD EXPLAIN HOW TO USE THE FUNCTION OR WHAT IS IN THE SECTION. FOR EXAMPLE, IF YOU'RE NOT SURE WHAT THE SECURITY MATRIX EXTRACTOR DOES OR HOW TO USE IT, THEN CLICK ON THE LINK IN THE SEPARATOR ENTITLED SECURITY MATRIX EXTRACTOR.
DIRECT ALL QUESTIONS, COMMENTS, AND REQUESTS TO JOHN MATERO.
SEARCH
ISSUER
SYMBOL
CUSIP
SEDOL
PACEID
PORTFOLIO
ENTER SEARCH STRING, THEN HIT ENTER
PORTFOLIO CONSTITUENT EXTRACTOR
DATE IN CCYYMMDD FORMAT
PORTFOLIO ID USE THE PORTFOLIO SEARCH TOOL ON THE LEFT TO LOCATE A PORTFOLIO ID
EXTRACT
SECURITY MATRIX EXTRACTOR
DATE RANGE TO DATES IN CCYYMMDD FORMAT
FREQUENCY DAILY MONTHLY
SECURITY ID
SECURITY ID TYPE CUSIP SEDOL
EXTRACT
MULTIPLE SECURITY EXTRACTOR UNDER CONSTRUCTION
DATE RANGE TO DATES IN CCYYMMDD FORMAT
FREQUENCY DAILY MONTHLY
SERIES TYPE PRICE TOTAL RETURN SPLIT FACTOR SHARES VOLUME DIVIDEND
SECURITY ID LIST
EXTRACT
HEALTH WARNING: THE MULTIPLE SECURITY EXTRACTOR IS BEING DEVELOPED. IT WORKS FOR US SECURITIES ONLY. CURRENTLY, CUSIPS ARE THE ONLY ACCEPTABLE SECURITY IDS.
MULTIPLE ACCOUNT EXTRACTOR
START DATE IN CCYYMMDD FORMAT
PORTFOLIO ID LIST
EXTRACT
DATA DIAGNOSTICS
PORTFOLIO STATS
DATE TO IN CCYYMMDD FORMAT
PORTFOLIO ID
USE THE PORTFOLIO SEARCH TOOL ON THE LEFT TO LOCATE A PORTFOLIO ID
RUN
DOCUMENTATION
US
PRICING DATA FROM CRSP AND FAME
SPLIT PROCESSING
DIVIDEND CODE DESCRIPTIONS
CORPORATE ACTIONS GUIDE
DATA INVENTORY
INTERNATIONAL
EXTEL TRADING VOLUME DATA FOR INTERNATIONAL EQUITIES
JAPANESE EQUITY DATA COVERAGE AND ANALYSIS
EXTEL INTERNATIONAL CORPORATE ACTION CODES + DESCRIPTIONS
EXTEL COUNTRY CODES+DESCRIPTIONS
OFFICIAL CCY-TO-EUR CONVERSION RATES
GENERAL
HOW PACE DEFINES AND DEALS WITH OUTLIERS
MONITORING PRODUCTION
LINKS
PACE
DATA DIAGNOSTICS
SYNONYM MAINTENANCE
BENCHMARK MAINTENANCE
ACCOUNT MAINTENANCE
AUTOSYS
BATCH LOAD STATS
UPLOAD FILES
RELATED
(ALMOST) GLOBAL HOLIDAY CALENDAR
EDGAR DB SEARCH
YAHOO FINANCE
YAHOO IPO CALENDAR
YAHOO SPLITS CALENDAR
STOCK EXCHANGE LINKS
THE GOLDMAN SACHS GROUP, INC > INVESTMENT MANAGEMENT DIVISION > PACE > DATACENTER • FOR INTERNAL USE ONLY

FIG. 9

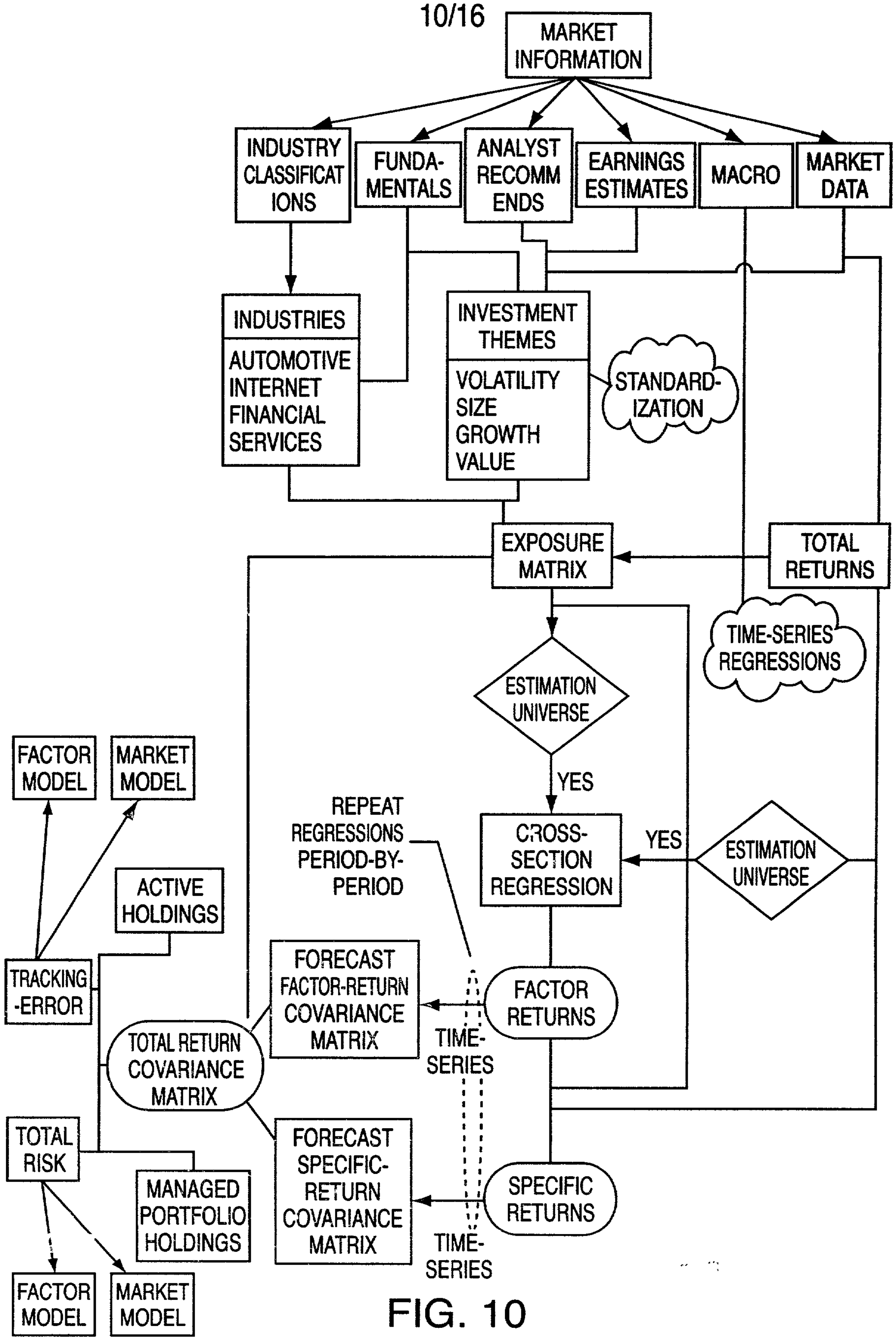
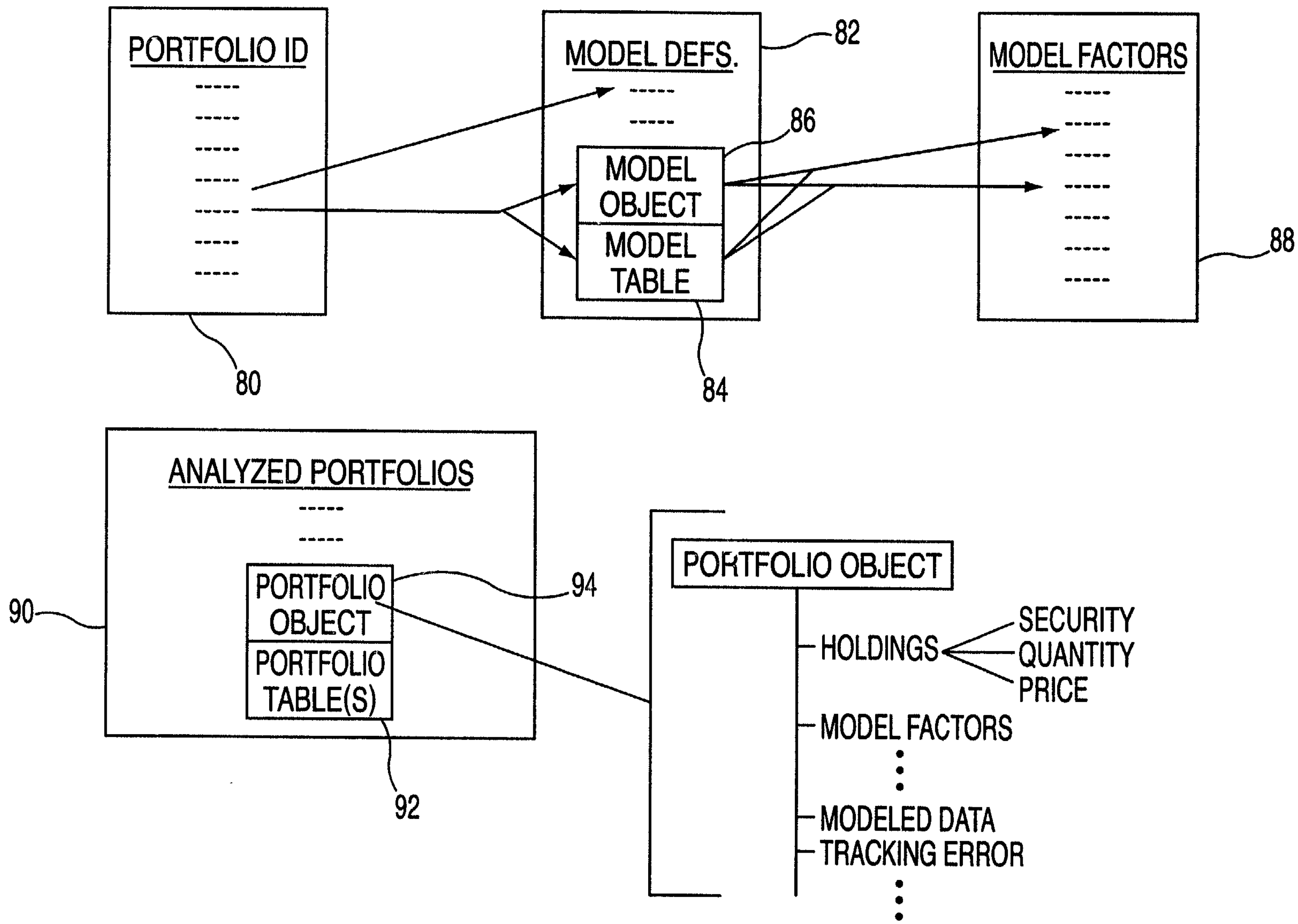

MARKET INFORMATION
INDUSTRY CLASSIFICATIONS
FUNDA-MENTALS
ANALYST RECOMMENDS
EARNINGS ESTIMATES
MACRO
MARKET DATA
INDUSTRIES
AUTOMOTIVE
INTERNET
FINANCIAL SERVICES
INVESTMENT THEMES
VOLATILITY
SIZE
GROWTH
VALUE
STANDARD-IZATION
EXPOSURE MATRIX
TOTAL RETURNS
TIME-SERIES REGRESSIONS
ESTIMATION UNIVERSE
YES
REPEAT REGRESSIONS PERIOD-BY-PERIOD
CROSS-SECTION REGRESSION
YES
ESTIMATION UNIVERSE
FACTOR MODEL
MARKET MODEL
ACTIVE HOLDINGS
TRACKING-ERROR
FORECAST FACTOR-RETURN COVARIANCE MATRIX
FACTOR RETURNS
TIME-SERIES
TOTAL RETURN COVARIANCE MATRIX
TOTAL RISK
MANAGED PORTFOLIO HOLDINGS
FORECAST SPECIFIC-RETURN COVARIANCE MATRIX
SPECIFIC RETURNS
TIME-SERIES
FACTOR MODEL
MARKET MODEL

FIG. 10


PORTFOLIO ID

80
MODEL DEFS.

82
MODEL OBJECT
MODEL TABLE
86
84
MODEL FACTORS

88
ANALYZED PORTFOLIOS

PORTFOLIO OBJECT
PORTFOLIO TABLE(S)
90
94
92
PORTFOLIO OBJECT
HOLDINGS
SECURITY
QUANTITY
PRICE
MODEL FACTORS
MODELED DATA
TRACKING ERROR

FIG. 11

DEFINITION OF MODEL FROM *CUSTOMPZ*
(HORIZON,FACTORLIST,INDUSTRYLIST,ESTIMWGHT,SPECSHRINK)

STRUCTURE	FIELD(1)	FIELD(2)	FIELD VALUE
MODEL	.NAME.		*'BARRA_MONTH_10*
MODEL	.F.	ESTIMUNIV	*'BARRA'*
		RISKS	*{1 X 13 CELL}*
		RISKNAMES	*{1 X 13 CELL}*
		SECTORS	*{1 X 13 CELL}*
		SECTORNAMES	*{1 X 13 CELL}*
		WEIGHTS	*'BARRA'*
		PROCEDURE	*'BARRA'*
		NAME	*'BARRA'*
		HORIZON	*'DAILY'*
		BEG	*19730201*
		END	*20000114*
		CAL	*'MONTH'*
		INDUSTRIES	*{1 X 52 DOUBLE}*
		EXPOSURES	*{1 X 65 DOUBLE}*
		RISKLIST	*{1 2 3 4 5 6 7 8 9 10 11 12 13}*
		INDUSTRYLIST	*{1 X 52 DOUBLE}*
		SECTORSLIST	*{1 X 13 CELL}*
		DATES	*{6813 X 2 DOUBLE}*
		PERIODS	*252*
MODEL	.OMEGA.	NAME	*'EXP2014'*
		LAG	*4*
		HALFLIFE	*20*
		MIN	*100*
		MAX	*100*
MODEL	.DELTA.	NAME	*'EXP20S10'*
		HALFLIFE	*20*
		MIN	*20*
		MAX	*100*
		SHRINK	*0.1000*

FIG. 12

PACE PORTFOLIO OBJECT

ALL DATA ELEMENTS REQUIRED TO DO RESEARCH AND MEASURE RISK AND RETURN RESIDE IN A PORTFOLIO'S OBJECT. THE FOLLOWING IS AN EXAMPLE OF FIELDS OF A PORTFOLIO OBLJECT (I.E., THE NAMES OF THE FIELDS). THE OBJECT'S NAME IS "PORT".

PORT.NAME
PORT.PERMNOS
PORT.WEIGHTS
PORT.PRICES
PORT.AMOUNTS
PORT.HOLDINGS
PORT.PORTFOLIOVALUE
PORT.PORTFOLIOEXPOSURE
PORT.MNGD_LOADINGS
PORT.MNGD_RETURN.STYLECONTRIB
.INDUSTRYCONTRIB
.STCK_LOADINGS
.CTYCONTRIB
.CCYCONTRIB
.FACTORCONTRIB
.SPECIFICCONTRIB
.ESTIMATED_TOTAL
.IPVO_TOTAL
.MODELERROR
.BENCHMARK
.MARKET
.WPRIMER
.ASSETCONTRIBUTION
.EXPECTED_MARKET
.MARKET_TIMING
.EXCEPTIONAL
PORT.MNGD_RISK
PORT.MNGD_MC
PORT.RISKMODELNAME
PORT.MODELID
PORT.NUMBEROFASSETS
PORT.PERCENT_CASH
PORT.DATE
PORT.RISKFREE
PORT.ASSET_RETURNS
PORT.LIQUIDITY
PORT.MKT_NAME
PORT.MKT_WEIGHTS
PORT.MKT_PERMNOS
PORT.PREMIUM
PORT.BM_NAME
PORT.BM_WEIGHTS
PORT.BM_PERMNOS
PORT.BM_HOLDINGS

PORT.BETAS
PORT.ACTIVE_WEIGHTS
PORT.ACTIVE_PERMNOS
PORT.ACTIVE_HOLDINGS
PORT.ACT_LOADINGS
PORT.ACT_RISK
PORT.ACT_MC
PORT.DELTA
PORT.FACTORCOV
PORT.RISKFACTORRETURN
PORT.RISKSPECIFICRETURN
PORT.RISKEXPOSUREMATRIX
PORT.HOTSPOTS
PORT.ATTRIBFACTORRETURN
PORT.ATTRIBSPECIFICRETURN
PORT.ATTRIBEXPOSUREMATRIX
PORT.IMPLIEDVIEW
PORT.REALTE
PORT.REALVOL
PORT.TURNOVER
PORT.XSECTIONVOL
PORT.BIAS20DAY
PORT.BIAS60DAY
PORT.BIAS90DAY
PORT.IR
PORT.SR
PORT.MULTI_ATTRIB
PORT.REALBETA

FIG. 13

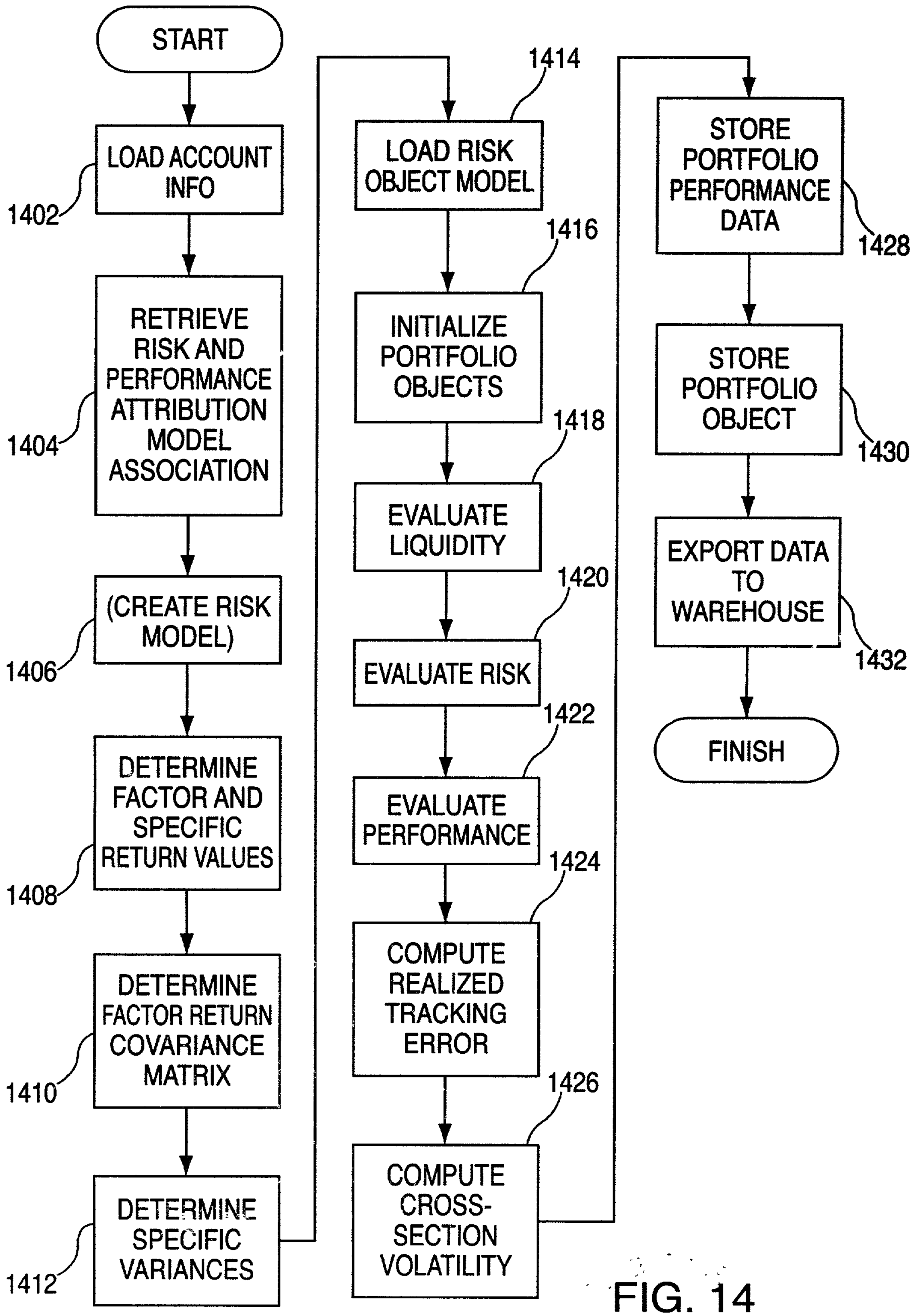

START
LOAD ACCOUNT INFO
1402
RETRIEVE RISK AND PERFORMANCE ATTRIBUTION MODEL ASSOCIATION
1404
(CREATE RISK MODEL)
1406
DETERMINE FACTOR AND SPECIFIC RETURN VALUES
1408
DETERMINE FACTOR RETURN COVARIANCE MATRIX
1410
DETERMINE SPECIFIC VARIANCES
1412
LOAD RISK OBJECT MODEL
1414
INITIALIZE PORTFOLIO OBJECTS
1416
EVALUATE LIQUIDITY
1418
EVALUATE RISK
1420
EVALUATE PERFORMANCE
1422
COMPUTE REALIZED TRACKING ERROR
1424
COMPUTE CROSS-SECTION VOLATILITY
1426
STORE PORTFOLIO PERFORMANCE DATA
1428
STORE PORTFOLIO OBJECT
1430
EXPORT DATA TO WAREHOUSE
1432
FINISH

FIG. 14

SAMPLE PACE HOME PAGE

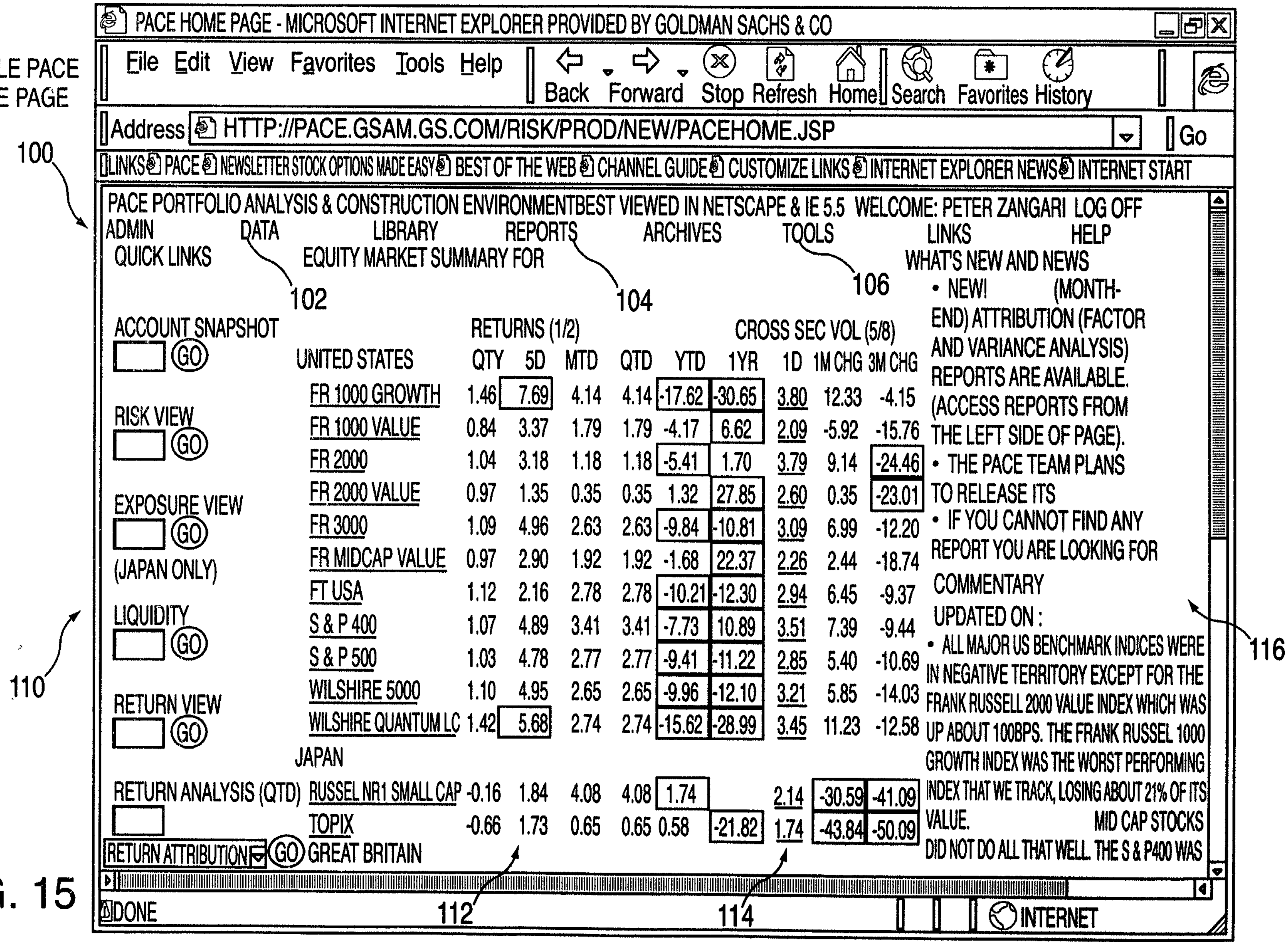


FIG. 15

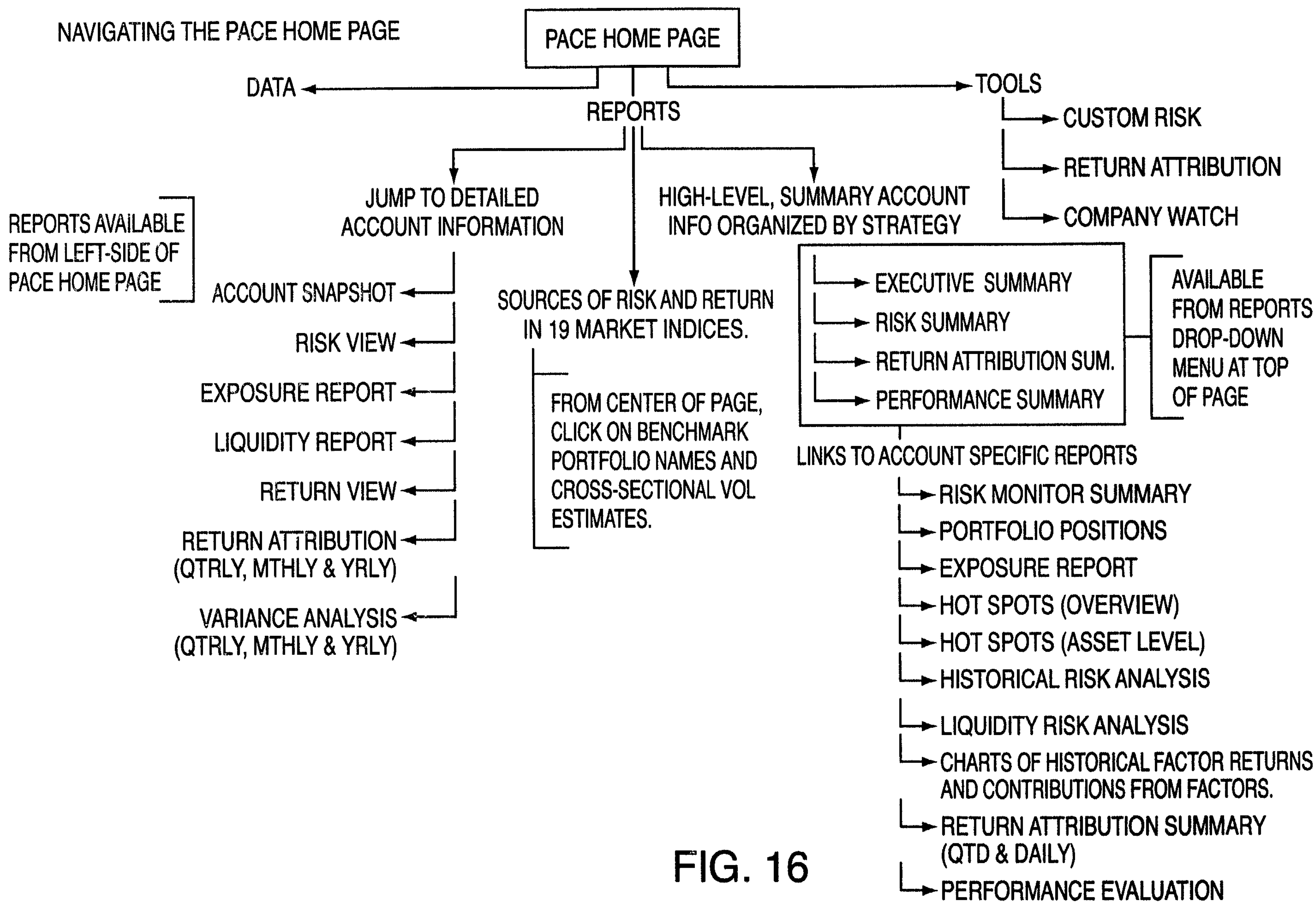

NAVIGATING THE PACE HOME PAGE
PACE HOME PAGE
DATA
REPORTS
TOOLS
CUSTOM RISK
RETURN ATTRIBUTION
COMPANY WATCH
JUMP TO DETAILED ACCOUNT INFORMATION
REPORTS AVAILABLE FROM LEFT-SIDE OF PACE HOME PAGE
ACCOUNT SNAPSHOT
RISK VIEW
EXPOSURE REPORT
LIQUIDITY REPORT
RETURN VIEW
RETURN ATTRIBUTION (QTRLY, MTHLY & YRLY)
VARIANCE ANALYSIS (QTRLY, MTHLY & YRLY)
SOURCES OF RISK AND RETURN IN 19 MARKET INDICES.
FROM CENTER OF PAGE, CLICK ON BENCHMARK PORTFOLIO NAMES AND CROSS-SECTIONAL VOL ESTIMATES.
HIGH-LEVEL, SUMMARY ACCOUNT INFO ORGANIZED BY STRATEGY
EXECUTIVE SUMMARY
RISK SUMMARY
RETURN ATTRIBUTION SUM.
PERFORMANCE SUMMARY
AVAILABLE FROM REPORTS DROP-DOWN MENU AT TOP OF PAGE
LINKS TO ACCOUNT SPECIFIC REPORTS
RISK MONITOR SUMMARY
PORTFOLIO POSITIONS
EXPOSURE REPORT
HOT SPOTS (OVERVIEW)
HOT SPOTS (ASSET LEVEL)
HISTORICAL RISK ANALYSIS
LIQUIDITY RISK ANALYSIS
CHARTS OF HISTORICAL FACTOR RETURNS AND CONTRIBUTIONS FROM FACTORS.
RETURN ATTRIBUTION SUMMARY (QTD & DAILY)
PERFORMANCE EVALUATION

FIG. 16